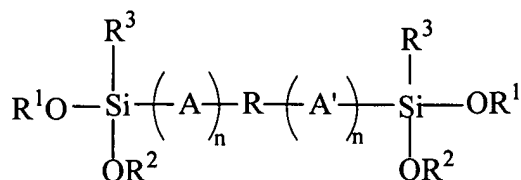


WHAT IS CLAIMED IS:

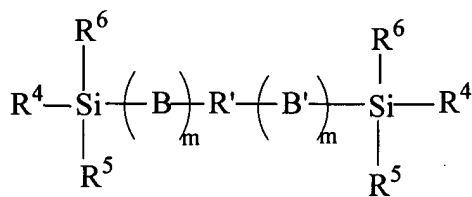
1. A moisture curable composition comprising:
 - (a) alkoxysilyl capped polymer compounds within the following formula:



I

wherein R is a hydrocarbon diradical which may include heteroatom and/or silicone-containing groups or linkages; A and A' are each C₁₋₃₀ linear or branched, substituted or unsubstituted aliphatic groups or aromatic-containing groups, with or without interruption by a carboxy, carbamate, carbonate, ureido, urethane or sulfonate linkage; n may be 0 or 1; R¹ and R² are substituted or unsubstituted C₁₋₁₂ alkyl or aryl groups; R³ is a C₁₋₁₂ alkyl, alkenyl, alkoxy, aminoalkyl or aryl group, or a (meth)acryloxyalkyl group;

- (b) at least one alkylsilyl capped plasticizer within the following formula:



II

wherein R' is a hydrocarbon diradical which may include heteroatom and/or silicone-containing groups or linkages; B and B' may be each C₁₋₃₀ linear or branched, substituted or unsubstituted aliphatic groups or aromatic-containing groups, with or without interruption by a carboxy, carbamate, carbonate, ureido, urethane or sulfonate linkage; m may be 0 or 1; R⁴ and R⁵ are substituted or unsubstituted C₁₋₁₂ alkyl or aryl groups; R⁶ is a C₁₋₁₂ alkyl, alkenyl, alkoxy, aminoalkyl or aryl group, or a (meth)acryloxyalkyl group;

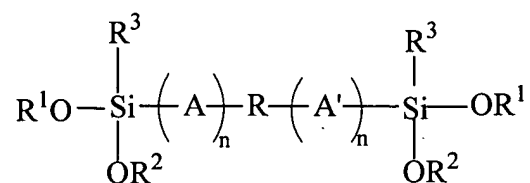
- (c) a filler; and
 - (d) a moisture curing catalyst.

2. The composition of claim 1, wherein R is a polyether polymer backbone.
3. The composition of claim 2, wherein the polymer backbone of the alkoxy silyl capped polymer is a polypropylene oxide.
4. The composition of claim 1, wherein R³ is a C₁₋₁₂ alkoxy.
5. The composition of claim 1, wherein R⁶ is a C₁₋₁₂ alkyl.
6. The composition of claim 1, wherein R³ is a C₁₋₁₂ alkoxy and R⁶ is a C₁₋₁₂ alkyl.
7. The composition of claim 1, wherein R' is a polyether polymer backbone.
8. The composition of claim 7, wherein the polymer backbone of the alkylsilyl capped polymer is a polytetramethylene oxide.
9. The composition of claim 1, wherein the filler is a calcium carbonate filler.
10. The composition of claim 9, wherein the calcium carbonate filler is present in from about 10 weight percent to about 70 weight percent on a total composition basis.
11. The composition of claim 1, further comprising an adhesion promoter.
12. The composition of claim 11, wherein the adhesion promoter is an aminopropyltrimethoxysilane.
13. The composition of claim 1, further including a non-alkylsilyl capped plasticizer.

14. A moisture curable composition comprising:
- (a) an alkoxysilyl capped polymer having a polymer or copolymer backbone selected from the group consisting of polyurethane, silicone, polyamide, polyether, polyester and combinations thereof;
 - (b) an alkylsilyl capped polymeric plasticizer having a polymer or copolymer backbone selected from the group consisting of polyurethane, silicone, polyamide, polyether, polyester and combinations thereof;
 - (c) a filler; and
 - (d) a moisture curing catalyst
- wherein the composition has low temperature adhesion to polyolefin substrates.

15. The composition of claim 14, wherein the composition has room temperature adhesive to polyethylene or polypropylene substrates.

16. A moisture curable composition comprising:
- (a) from about 5 weight percent to about 95 weight percent on a total composition basis of trialkoxysilyl capped polymer compounds of the following structure:

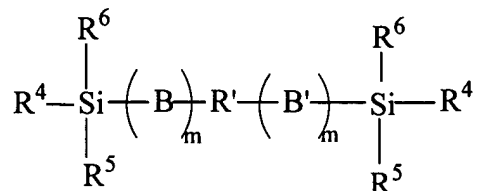


I

wherein R is a hydrocarbon diradical which may include heteroatom and/or silicone-containing groups or linkages; A and A' are each C₁₋₃₀ linear or branched, substituted or unsubstituted aliphatic groups or aromatic-containing groups, with or without interruption by a carboxy, carbamate, carbonate, ureido, urethane or sulfonate linkage; n may be 0 or 1; R¹ and R² are substituted or unsubstituted C₁₋₁₂ alkyl or aryl groups; R³ is a C₁₋₁₂ alkoxy group;

- (b) from about 0 weight percent to about 35 weight percent on a total composition

basis of trialkylsilyl capped polymeric plasticizers of the following structure:



II

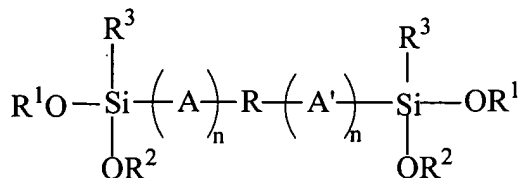
wherein R' is a hydrocarbon diradical which may include heteroatom and/or silicone-containing groups or linkages; B and B' may be each C₁₋₃₀ linear or branched, substituted or unsubstituted aliphatic groups or aromatic-containing groups, with or without interruption by a carboxy, carbamate, carbonate, ureido, urethane or sulfonate linkage; m may be 0 or 1; R⁴ and R⁵ are substituted or unsubstituted C₁₋₁₂ alkyl or aryl groups; R⁶ is a C₁₋₁₂ alkyl, alkenyl or aryl group;

- (c) from about 1 weight percent to about 5 weight percent on a total composition basis of an aminopropyltrimethoxysilane adhesion promoter;
- (d) from about 10 weight percent to about 70 weight percent on a total composition basis of a filler; and
- (f) a moisture curing catalyst.

17. The composition of claim 16, wherein the filler is calcium carbonate filler.

18. A method of bonding polyolefin substrates comprising:

- (i) selecting a polyolefin substrate;
- (ii) selecting a moisture curable composition comprising:
 - (a) alkoxyisilyl capped polymer compounds within the following formula:



I

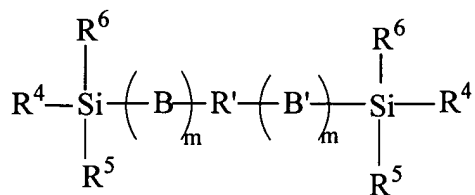
wherein R is a hydrocarbon diradical which may include heteroatom and/or silicone-containing groups or linkages; A and A' are each C₁₋₃₀ linear or branched, substituted or

unsubstituted aliphatic groups or aromatic-containing groups, with or without interruption by a carboxy, carbamate, carbonate, ureido, urethane or sulfonate linkage; n may be 0 or 1; R¹ and R² are substituted or unsubstituted C₁₋₁₂ alkyl or aryl groups; R³ is a C₁₋₁₂ alkyl, alkenyl, alkoxy, aminoalkyl or aryl group, or a (meth)acryloxyalkyl group;

- (b) an adhesion promoter;
- (c) a filler; and
- (d) a moisture curing catalyst;
- (iii) applying the moisture curable composition to the polyolefin substrate; and
- (iv) curing the moisture curable composition.

19. The method of claim 18, wherein the step of selecting the moisture curable composition further includes the step of selecting a plasticizer.

20. The method of claim 19, where the plasticizer is an alkylsilyl capped polymer within the following formula:



II

wherein R' is a hydrocarbon diradical which may include heteroatom and/or silicone-containing groups or linkages; B and B' may be each C₁₋₃₀ linear or branched, substituted or unsubstituted aliphatic groups or aromatic-containing groups, with or without interruption by a carboxy, carbamate, carbonate, ureido, urethane or sulfonate linkage; m may be 0 or 1; R⁴ and R⁵ are substituted or unsubstituted C₁₋₁₂ alkyl or aryl groups; R⁶ is a C₁₋₁₂ alkyl, alkenyl, alkoxy, aminoalkyl or aryl group, or a (meth)acryloxyalkyl group.

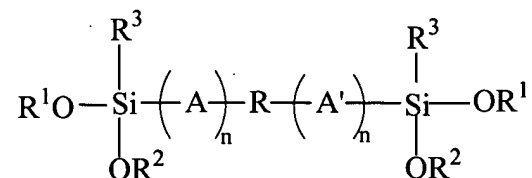
21. The method of claim 18, wherein the step of curing includes room temperature curing.

22. The method of claim 18, wherein the step of curing includes curing at temperatures above room temperature.

23. The method of claim 18, wherein the step of selecting a polyolefin substrate includes the selecting of a polyethylene or polypropylene substrate.

24. An article of manufacture comprising:
polyolefin substrates having a cured composition therebetween to adhesively join the substrates to one and the other, wherein the cured composition comprises:

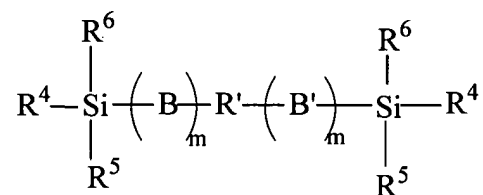
(a) alkoxyisilyl capped polymer compounds within the following formula:



I

wherein R is a hydrocarbon diradical which may include heteroatom and/or silicone-containing groups or linkages; A and A' are each C₁₋₃₀ linear or branched, substituted or unsubstituted aliphatic groups or aromatic-containing groups, with or without interruption by a carboxy, carbamate, carbonate, ureido, urethane or sulfonate linkage; n may be 0 or 1; R¹ and R² are substituted or unsubstituted C₁₋₁₂ alkyl or aryl groups; R³ is a C₁₋₁₂ alkyl, alkenyl, alkoxy, aminoalkyl or aryl group, or a (meth)acryloxyalkyl group;

(b) at least one alkylsilyl capped plasticizer within the following formula:



II

wherein R' is a hydrocarbon diradical which may include heteroatom and/or silicone-containing groups or linkages; B and B' may be each C₁₋₃₀ linear or branched, substituted or unsubstituted aliphatic groups or aromatic-containing groups, with or without interruption by a carboxy,

carbamate, carbonate, ureido, urethane or sulfonate linkage; m may be 0 or 1; R⁴ and R⁵ are substituted or unsubstituted C₁₋₁₂ alkyl or aryl groups; R⁶ is a C₁₋₁₂ alkyl, alkenyl, alkoxy, aminoalkyl or aryl group, or a (meth)acryloxyalkyl group;

- (c) an adhesion promoter;
- (d) a filler; and
- (f) a moisture curing catalyst.

25. The article of claim 24, wherein the polyolefin substrates include polyethylene or polypropylene substrates.